

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 09/19/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO: a. NAME OF CONSIGNEE US Environmental Protection Agency	
3. ORDER NO. 68HERC19F0310		4. REQUISITION/REFERENCE NO. PR-ORD-19-01975			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS National Exposure Research Lab 109 T.W. Alexander Drive	
				c. CITY Research Triangle Park	e. ZIP CODE 27709
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.				8. TYPE OF ORDER	
b. COMPANY NAME				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR: _____ Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
c. STREET ADDRESS 9300 LEE HIGHWAY				Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE ORD NCEA PY1	

11. BUSINESS CLASSIFICATION (Check appropriate box(es))

- ☐ a. SMALL
 ☒ b. OTHER THAN SMALL
 ☐ c. DISADVANTAGED
 ☐ d. WOMEN-OWNED
 ☐ e. HUBZone
☐ f. SERVICE-DISABLED VETERAN-OWNED
☐ g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM
☐ h. EDWOSB

12. F.O.B. POINT

13. PLACE OF		14. GOVERNMENT B/L NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 07/30/2020	16. DISCOUNT TERMS
a. INSPECTION Destination	b. ACCEPTANCE Destination			

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: DANIEL VALLERO Max Expire Date: 07/30/2020 Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$30,179.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$30,179.00
c. CITY Durham			d. STATE NC	e. ZIP CODE 27711			17(i) GRAND TOTAL

22. UNITED STATES OF

AMERICA BY (Signature)

09/19/2019

ELECTRONIC
SIGNATURE

23. NAME (Typed)

William M. Yates

TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 09/19/2019	CONTRACT NO. 68HERC19D0003	ORDER NO. 68HERC19F0310
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 09/19/2019 to 07/30/2020</p> <p>Funding: EMD IO. ORD/NERL/SED/IEMB, Vallero. Funding PR (New Task Order) for Human Health and Risk Assessment Contract, 68HERC19D0003. Task Order Title: General Social Survey Data Analysis and Write-up. TOCOR: Daniel Vallero. ALT TOCOR: Peter Egeghy. CLCOR: Melissa Revely-Wilson. Contracting Office: CAD. Contracting Officer: William Yates. Cost Org: 26A6A RAP Extramural. IEMB refers to Integrated Environmental Modeling Branch (Chief: Caroline Stevens).</p> <p>Accounting Info: 19-20-C-26UE000-000FK8XPW-2532-26A6A-1 926UEE126-001 BFY: 19 EFY: 20 Fund: C Budget Org: 26UE000 Program (PRC): 000FK8XPW Budget (BOC): 2532 Cost: 26A6A DCN - Line ID: 1926UEE126-001 Funding Flag: Complete Funded: \$30,000.00</p> <p>Accounting Info: 19-20-C-26UE000-000FK6XR1-2532-26A6A-1 926UEE126-002 BFY: 19 EFY: 20 Fund: C Budget Org: 26UE000 Program (PRC): 000FK6XR1 Budget (BOC): 2532 Cost: 26A6A DCN - Line ID: 1926UEE126-002 Funding Flag: Complete Funded: \$179.00</p>				30,179.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$30,179.00

**PERFORMANCE WORK STATEMENT
CONTRACT NO. 68HERC19D0003
TO -68HERC19F0310**

TITLE: General Social Survey Data Analysis and Writeup (Using Data from the General Social Survey combined with derived residential nature measures to assess human health and wellbeing)

PERIOD OF PERFORMANCE: September 19, 2019 – July 30, 2020

Specify Section & Paragraph SOW: (select all that apply)

- A. Assessment Issues and Documents
- B. Residential Nature Measures Research and Development
- F. Information Management
- G. Literature Search

I. PURPOSE

The purpose of this task order (TO) is to provide services to the U.S. Environmental Protection Agency's (hereinafter EPA or Agency) Exposure Methods and Measurement Division of the National Exposure Research Laboratory, Office of Research and Development (ORD).

II. BACKGROUND

The General Social Survey (GSS) collects representative data from a nationwide sample of American adults to monitor attitudes and behaviors regarding several socially-relevant issues; it is available since 1972 and currently conducted in even-numbered years. The GSS core module includes a few measures of individual well-being (including perceived general health and subjective well-being) that allow for analyses covering multiple years. The GSS deployed an Environmental module focused on knowledge, attitudes and behaviors related to the environment, including in the 2012 sample. Environmental modules have allowed social scientists to better characterize nationwide trends regarding attitudes and behaviors towards the environment in the American population, including perception of environmental problems and level of concern for the environment, trust in information sources, motivation for environmental stewardship, etc.

EPA aims to explore associations between objective measures of ecosystem services, provided by EnviroAtlas, with GSS responses related to individual perceptions of well-being, including general health and happiness. The nature and magnitude of the influence of exposure to natural environments on human well-being (including physical health, psychological and social functioning, and subjective well-being) is not well characterized across the U.S., at the individual level. EPA established an Interagency Agreement with NSF to gain access to extant individual-level data on perceived health and well-being, as well as demographics and socio-cultural factors, from the General Social Survey (GSS), including geocoded census tract, which is considered sensitive data by GSS and is not publicly available. GSS geocoded data at the census tract level have been accessed through special agreement with the host institution (NORC, University of Chicago) aimed at ensuring protection of sensitive data. Among others, EPA intends to use EnviroAtlas layers for the nation (e.g. population near roadways with little or no tree buffer, percentage of natural land cover, percentage of forest) and for selected communities (e.g. access to parks, view of trees, view of water, green space per capita) to evaluate those aspects of the natural environment that convey a salutogenic influence on individual well-being.

Results of the analysis will be prepared for journal publication and any resulting articles will be incorporated into the EnviroAtlas Eco-Health Browser.

III. STATEMENT OF WORK

Various support will be needed to analyze and summarize data regarding access to residential nature and the relationship to health and wellbeing. Support can be defined as (but not limited to): analysis of additional data, summary of results and gathering of relevant supporting literature, documentation of code used for statistical analyses, and writeup of results for internal or external publication purposes.

Task 1: Analysis of GSS data combined with spatial information

GSS data contain numerous response categories including socio-demographic and self-reported data. To build a model of the potential impacts of residential nature on health, relevant information must be included to control for variables such as age, sex, race/ethnicity, income, employment status, marital status, presence of children, and housing type. Spatial information related to land cover variables from buffers created around the residence provides the primary variable of interest to be statistically assessed. Under the direction of EPA staff [the TO-COR], the Contractor will develop statistical models to assess the impact of residential nature on health and well-being and conduct statistical analysis using the developed model. Model code, outputs, and relevant documentation of model development is expected. Performance of this task requires accessing sensitive data located in a secure room within the EPA RTP campus and appropriate training and clearance to do so.

Specifically, in support of these goals the contractors shall create models to measure:

1. GSS variables related to health. This may require:
 - Scaling the metric of self-reported general health to valid endpoints for statistical comparison
 - Creating stratified analyses to account for population level dynamics
 - Annotation of code used to create models
2. GSS variables related to well-being. This may require:
 - Scaling the metric of self-reported happiness to valid endpoints for statistical comparison
 - Creating stratified analyses to account for population level dynamics
 - Annotation of code used to create models
3. GSS data describing social factors, physical activity and workplace information. This may require:
 - Consulting the variable list to identify relevant survey years
 - Extracting necessary data and incorporating it into the model as e.g. covariates or mediators
 - Annotation of code used to create models

A memo describing the proposed approach to completing Task 1 shall be submitted to EPA TO-COR for review and approval 21 work days after meeting with EPA scientists and the EPA TO-COR. Model construction and statistical analysis results (including model code, outputs, and relevant documentation as requested by the TO-COR) shall be completed 2 months after acceptance of proposed approach by EPA.

Task 2: Data Summary Report & Draft manuscript from created models

This task will involve the development of a data summary report that describes model results including necessary background information, the models created during data analysis, and the resultant findings.

After the data analysis and report is complete, the report will be used to assist in the writing of a manuscript presenting the findings from one or more of the created models in the context of existing topic literature. The manuscript will include information on the background, methods, and results of the research and is due 3-9 months after completion of Task 1.

IV. Quality Assurance

The contractor shall follow the quality assurance project plan (QAPP) titled “Revealing the Value and Influence of the Natural Environment on Individual Well-being using the GSS” (QAPP ID: D-EMMD-0031515-QP-1) for the work described in this Performance Work Statement (PWS). The “Quality Assurance Instructions for Contractors Citing Secondary Data” in Appendix A of this PWS shall also be followed. Specific plans for statistical model development will be described by either the contractor or EPA in an addendum to the existing cited QAPP and be submitted for review and approval by an EPA QA Manager prior to starting work on this Task Order.

V. ANTICIPATED DELIVERABLES

All products by the Contractor must be of high quality, written in a clear concise style, with a logical organization and presentation. Deliverables shall be provided to EPA in electronic formats compatible with EPA-supported software (likely to be Word, R, and Excel).

VI. DELIVERABLES AND SCHEDULE

Quality Assurance	Schedule
QAPP addendum to cover statistical model development and analysis	21 work days after award of the Task Order
Task 1. Deliverables	Schedule
Memo describing proposed approach	21 work days after meeting with EPA scientists and TO-COR
Model Construction, statistical analysis results of data including model code, outputs, and relevant documentation as requested by the TO-COR	2 months after acceptance of proposed approach by EPA
Task 2. Deliverables	Schedule
Report out of results from created models in the form of 1) a data summary report and 2) a written co-authored manuscript based on results from Task 1	3-9 months after completion of Task 1 analytics

VII. MANAGEMENT CONTROLS

1. All deliverables shall be reviewed for conformance to the requirements of this TO before being approved as final.
2. The Contractor shall comply with other applicable requirements for final TO reports stipulated in contract.

VIII. NOTICE REGARDING GUIDANCE PROVIDED UNDER THIS PROJECT

Guidance is strictly limited to technical and analytical support. The Contractor shall not engage in activities of an inherent governmental nature such as the following:

- (1) Formulation of Agency policy
- (2) Selection of Agency priorities
- (3) Development of Agency regulations

Should the Contractor receive any instruction from an EPA staff person that the Contractor ascertains to fall into any of these categories or goes beyond the scope of the contract or TO, the Contractor shall immediately contact the Task Order Contracting Officer Representative (TO-COR), Project Officer (PO), or Contracting Officer (CO).

IX. SPECIAL CONDITIONS AND ASSUMPTIONS

The Contractor shall hold a conference call with the EPA TO-COR at the initiation of the task order, and shall provide a bi-weekly update to the COR by telephone for the duration of the TO, in addition to the standard reporting requirements of the contract.

X. EPA CONTACT INFORMATION

Contracting Officer Representative: Daniel A. Vallero, PhD, NERL/SED, vallero.daniel@epa.gov, 919-541-3306

Alternate COR: Peter P. Egeghy, PhD, NERL/CED, egeghy.peter@epa.gov, 919-541-4103

Appendix A

Quality Assurance Instructions for Contractors Citing Secondary Data

Section 515 of the Treasury and General Government Appropriations Act for fiscal year 2001 directed the Office of Management and Budget (OMB) to issue guidelines to all Federal agencies to ensure and maximize the quality, objectivity, utility, and integrity of the information they disseminate. This law and the OMB guidance subsequently issued in 67 FR 8452 (02/22/02) underscore the need for EPA/NCEA to assess the quality and credibility of the secondary research information cited in its assessment documents.

Secondary research information is defined as information that was originally produced for one purpose but is now being recompiled or reassessed for a different purpose. Secondary research information usually originates from such primary sources as journal articles, books, government and industry reports, databases, and models. The set of processes that follows serves as a guide to evaluate the strength of secondary data gathered from these primary sources.

The Contractors must list the sources for the references cited in his/her document chapters or sections. The source list will include but not be limited to the names of any commercially available or local databases searched by computer or by hand, the search terms and search strategy used, and the time period of the search. List any print sources like books or journal articles which provided references. List any sources of raw data.

After fully reporting all of the reference sources, identify the most relevant information or key studies among the references you cite and critically evaluate them. Key studies are those most crucial or pivotal to answer the research questions for the project. The key study may have positive or negative results and may even be all that is currently available on the research topic, but the key study is integral to any discussion of the topic. Sometimes, the key study is not recognizable until all of the literature is gathered and evaluated. Key studies should exhibit at least most of the general attributes defined below:

FOCUS: the work not only addresses the area of inquiry under consideration but also contributes to its understanding;

VERIFY: the work is consistent with accepted knowledge in the field or, if not, the new or varying information is documented within the work; the work fits within the context of the literature and is intellectually honest and authentic;

INTEGRITY: Is the work structurally sound? In a piece of research, is the design or research rationale logical and appropriate?

RIGOR: the work is important, meaningful, and non-trivial relative to the field and exhibits sufficient depth of intellect rather than superficial or simplistic reasoning;

UTILITY: the work is useful and professionally relevant; it makes a contribution to the field in terms of the practitioners' understanding or decision-making on the topic.

CLARITY: Is it written clearly and appropriately for the nature of the study?

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00001		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CAD		7. ADMINISTERED BY (If other than Item 6) CODE	
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0310	
				10B. DATED (SEE ITEM 13) 09/19/2019	
CODE 072648579		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

TOCOR: DANIEL VALLERO Max Expire Date: 07/30/2020

LIST OF CHANGES:

Reason for Modification: The purpose of this administrative modification is to incorporate 52.245-1 Government Property clause.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 11/26/2019

Previous edition unusable

NAME OF OFFEROR OR CONTRACTOR
 ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 09/19/2019 to 07/30/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00002		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD							
US Environmental Protection Agency							
26 West Martin Luther King Drive							
Mail Code: W136							
Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)		9A. AMENDMENT OF SOLICITATION NO.	
ICF Incorporated, L.L.C.							
Attn: Robert Toth							
9300 LEE HIGHWAY						9B. DATED (SEE ITEM 11)	
FAIRFAX VA 220316050							
				x		10A. MODIFICATION OF CONTRACT/ORDER NO.	
						68HERC19D0003	
						68HERC19F0310	
						10B. DATED (SEE ITEM 13)	
CODE 072648579				FACILITY CODE		09/19/2019	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DANIEL VALLERO Max Expire Date: 07/30/2020							
LIST OF CHANGES:							
Reason for Modification: The purpose of this administrative mod is to change the ending date for the period of performance to Sept 30, 2020.							
Period of Performance End Date changed from 30-JUL-20 to 30-SEP-20							
CHANGES FOR LINE ITEM NUMBER: 1							
End Date changed from 30-JUL-20 to 30-SEP-20							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 08/10/2020	

NAME OF OFFEROR OR CONTRACTOR
 ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	CHANGES FOR DELIVERY LOCATION: ORD/NERL-NC Delivery Date changed from 07/30/2020 to 09/30/2020 Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 09/19/2019 to 09/30/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00003		See Block 16C		PR-ORD-20-02567			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)			
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050							
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X			
				10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC19F0310			
				10B. DATED (SEE ITEM 13) 09/19/2019			
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: DANIEL VALLERO Max Expire Date: 12/31/2020							
The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020 and to extend the period of performance to December 31, 2020.							
LIST OF CHANGES:							
Period Of Performance End Date changed from 30-SEP-20 to 31-DEC-20							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Electronic Signature of Contracting Officer)		09/29/2020	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC19F0310/P00003	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 09/19/2019 to 12/31/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NUMBER			
				<input type="checkbox"/> 9B. DATED (SEE ITEM 11)			
				<input checked="" type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders			
				<input type="checkbox"/> 10B. DATED (SEE ITEM 13)			
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

STANDARD FORM 30 (REV. 11/2016)
Prescribed by GSA FAR (48 CFR) 53.243

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 10/07/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO: a. NAME OF CONSIGNEE CAD	
3. ORDER NO. 68HERC20F0011		4. REQUISITION/REFERENCE NO. PR-OA-19-00209			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136	
				c. CITY Cincinnati	e. ZIP CODE 45268-0001
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.				8. TYPE OF ORDER	
b. COMPANY NAME				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
c. STREET ADDRESS 9300 LEE HIGHWAY				Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE ORD/OSIM-DC	
11. BUSINESS CLASSIFICATION (Check appropriate box(es))					
<input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
12. F.O.B. POINT					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	
a. INSPECTION Destination	b. ACCEPTANCE Destination				
16. DISCOUNT TERMS					

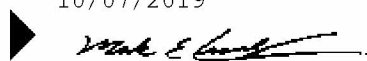
17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 Support for Americas Children and the Environment TOCOR: Rebecca Dzubow Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$9,726.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$9,726.00
c. CITY Durham				d. STATE NC	e. ZIP CODE 27711		17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature)

10/07/2019



ELECTRONIC SIGNATURE

23. NAME (Typed)
Mark Cranley
TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 10/07/2019	CONTRACT NO. 68HERC19D0003	ORDER NO. 68HERC20F0011
-----------------------------	-------------------------------	----------------------------

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 10/07/2019 to 10/06/2020 Support for Americas Children and the Environment: Firm Fixed Price \$9,726 per ICF proposal dated 10/07/2019. Accounting Info: 19-20-B-QP-000MA4-2505-1911P91023-001 BFY: 19 EFY: 20 Fund: B Budget Org: QP Program (PRC): 000MA4 Budget (BOC): 2505 DCN - Line ID: 1911P91023-001 Funding Flag: Partial Funded: \$9,726.00 Support for Americas Children and the Environment Firm Fixed Price 10/07/2019 - 10/06/2020 \$9,726.00 per ICF proposal dated 10/07/2019				9,726.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$9,726.00

Statement of Work

Contractor Name: ICF, Inc.

Task Order Title: Support for *America's Children and the Environment*

I. Background, Purpose and Scope

America's Children and the Environment (ACE) is EPA's compilation of children's environmental health indicators. ACE presents available data to report on trends and status of important factors related to children's environmental health, with indicators in three categories: Environments and Contaminants; Biomonitoring; and Health.

The ACE indicators are periodically updated on the Agency's public website at www.epa.gov/ace, providing easy access to all of the ACE content, along with supporting detailed technical documentation. Several of the indicators are also published annually in the interagency *America's Children* report, available at childstats.gov.

The contractor provided support for ACE under a previous contract (GS-00F-010CA_EP-G16H-01019), including calculation of updated indicator values for existing ACE indicators and editing ACE website files to incorporate updated indicator values that were computed since the prior website update was completed in 2017. All relevant website files have been edited in 2019, but the 2019 revisions have not yet been published to the public website. The purpose of this task assignment is to provide additional support for updating the ACE website, and support for updates to selected existing children's environmental health indicators.

Task 1: Within 3 days of the TO award, the Contractor shall schedule a conference call (not to exceed 1 hour) with the TO Contracting Officer Representative (TOCOR) and other EPA staff and any appropriate contractor staff to clarify outstanding questions and confirm the schedule of specific tasks. Copies of all correspondence pertaining to the performance of this TO shall be sent to the L-COR.

Task 2: Support for ACE website and indicator updates

The contractor shall edit website text, graphics and supporting background documents, as requested by the TO-COR. On a date to be specified by the TO-COR, the contractor shall publish all updated content to the public ACE website.

The contractor shall provide updated values (incorporating data for the year 2018) for the following indicators from *America's Children and the Environment* and *America's Children*: asthma prevalence, and neurodevelopmental disorders. Updated indicator values shall be provided in Excel spreadsheets.

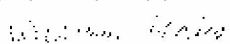
Deliverables and due dates:

- 2a. Publish updates to the public ACE website: on date to be specified by the TO-COR
- 2b. Asthma and neurodevelopmental disorders indicators update: 11/20/19

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 2	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C					
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD							
US Environmental Protection Agency							
26 West Martin Luther King Drive							
Mail Code: W136							
Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)		9A. AMENDMENT OF SOLICITATION NO.	
ICF Incorporated, L.L.C.							
Attn: Robert Toth						9B. DATED (SEE ITEM 11)	
9300 LEE HIGHWAY							
FAIRFAX VA 220316050							
				X		10A. MODIFICATION OF CONTRACT/ORDER NO.	
						68HERC19D0003	
						68HERC20F0011	
						10B. DATED (SEE ITEM 13)	
						10/07/2019	
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
Support for Americas Children and the Environment							
TOCOR: CHRISTINE LLOYD							
Payment:							
RTP Finance Center							
US Environmental Protection Agency							
RTP-Finance Center (AA216-01)							
109 TW Alexander Drive							
www2.epa.gov/financial/contracts							
Durham NC 27711							
Period of Performance: 10/07/2019 to 10/06/2020							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				 (Signature of Contracting Officer)		12/03/2019 ELECTRONIC SIGNATURE	
(Signature of person authorized to sign)							

NAME OF OFFEROR OR CONTRACTOR
 ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Support for Americas Children and the Environment Firm Fixed Price 10/07/2019 - 10/06/2020 \$9,726.00 per ICF proposal dated 10/07/2019				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGES		
					1 2		
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00002		See Block 16C		PR-OA-20-00045			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD							
US Environmental Protection Agency							
26 West Martin Luther King Drive							
Mail Code: W136							
Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(X)		9A. AMENDMENT OF SOLICITATION NO.	
ICF Incorporated, L.L.C.							
Attn: Robert Toth							
9300 LEE HIGHWAY						9B. DATED (SEE ITEM 11)	
FAIRFAX VA 220316050							
				X		10A. MODIFICATION OF CONTRACT/ORDER NO.	
						68HERC19D0003	
						68HERC20F0011	
						10B. DATED (SEE ITEM 13)	
						10/07/2019	
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Increase:		\$24,963.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE		A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
X		B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
		C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
		D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
Support for Americas Children and the Environment							
TOCOR: CHRISTINE LLOYD							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification is to revise the PWS and add funding for the modification.							
Total Amount for this Modification: \$24,963.00							
New Total Amount for this Version: \$34,689.00							
New Total Amount for this Award: \$34,689.00							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 02/11/2020	
(Signature of person authorized to sign)							

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0011/P00002	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Obligated Amount for this Modification: \$24,963.00 New Total Obligated Amount for this Award: \$34,689.00</p> <p>CHANGES FOR LINE ITEM NUMBER: 1</p> <p>Total Amount changed from \$9,726.00 to \$34,689.00 Obligated Amount for this Modification: \$24,963.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-B-QZ-000MH3-2505-2011Z91031-001 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) B Budget Organization QZ Program (PRC) 000MH3 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 2011Z91031-001</p> <p>Amount: \$24,963.00</p> <p>Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Period of Performance: 10/07/2019 to 10/06/2020 Support for Americas Children and the Environment Firm Fixed Price 10/07/2019 - 10/06/2020 \$9,726.00 per ICF proposal dated 10/07/2019</p>				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00003		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CODE CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		(x)		9A. AMENDMENT OF SOLICITATION NO.	
CODE 072648579		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC20F0011	
				10B. DATED (SEE ITEM 13) 10/07/2019	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
DUNS Number: 072648579
Support for Americas Children and the Environment
TOCOR: CHRISTINE LLOYD
LIST OF CHANGES:
Reason for Modification: The purpose of this modification is to add Rebecca Dzubow as the Alternate Task Order Project Officer. This will allow her to pay invoices as they are submitted.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 03/25/2020

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0011/P00003	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/07/2019 to 10/06/2020 Support for Americas Children and the Environment Firm Fixed Price 10/07/2019 - 10/06/2020 \$9,726.00 per ICF proposal dated 10/07/2019				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 2	
2. AMENDMENT/MODIFICATION NO. P00004		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		5. PROJECT NO. (If applicable)	
		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC20F0011	
CODE 072648579		FACILITY CODE		10B. DATED (SEE ITEM 13) 10/07/2019	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

Support for Americas Children and the Environment

TOCOR: CHRISTINE LLOYD

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 10/08/2020

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0011/P00004	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/07/2019 to 10/06/2020 Support for Americas Children and the Environment Firm Fixed Price 10/07/2019 - 10/06/2020 \$9,726.00 per ICF proposal dated 10/07/2019				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020	4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)		
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE		
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors			<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER		
			<input type="checkbox"/>		9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders		
			<input type="checkbox"/>		10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/> (X)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

STANDARD FORM 30 (REV. 11/2016)
Prescribed by GSA FAR (48 CFR) 53.243

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 2	
2. AMENDMENT/MODIFICATION NO. P00005		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		5. PROJECT NO. (If applicable)	
		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC20F0011	
				10B. DATED (SEE ITEM 13) 10/07/2019	
CODE 072648579		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

Support for Americas Children and the Environment

TOCOR: CHRISTINE LLOYD

LIST OF CHANGES:

Reason for Modification: The purpose of this administrative modification will be to extend the period of performance to September 30, 2021.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 10/20/2020

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0011/P00005	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/07/2019 to 09/30/2021 Support for Americas Children and the Environment Firm Fixed Price 10/07/2019 - 10/06/2020 \$9,726.00 per ICF proposal dated 10/07/2019				

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 10/18/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO: a. NAME OF CONSIGNEE ORD NCEA DC	
3. ORDER NO. 68HERC20F0022		4. REQUISITION/REFERENCE NO. PR-ORD-19-02363			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency ORD NCEA William Jefferson Clinton Building 1200 Pennsylvania Ave NW Mail Code 8623P	
				c. CITY Washington	e. ZIP CODE 20460
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.					
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 9300 LEE HIGHWAY				<input type="checkbox"/> a. PURCHASE REFERENCE YOUR: _____ Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050	<input checked="" type="checkbox"/> b. DELIVERY Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development	

11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB				12. F.O.B. POINT	
13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination		14. GOVERNMENT B/L NO.	
				15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	
				16. DISCOUNT TERMS	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: Christopher Clark Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$43,804.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$43,804.00
c. CITY Durham		d. STATE NC	e. ZIP CODE 27711				17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature)

10/18/2019

ELECTRONIC SIGNATURE

23. NAME (Typed)

William M. Yates

TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 10/18/2019	CONTRACT NO. 68HERC19D0003	ORDER NO. 68HERC20F0022
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 10/18/2019 to 10/17/2020</p> <p>This PR is to support a workshop on Enhanced Efficiency Fertilizers and write a journal article.</p> <p>Accounting Info: 19-20-C-262W000-000FK6XR1-2532-26A6A-1 9262WC926-001 BFY: 19 EFY: 20 Fund: C Budget Org: 262W000 Program (PRC): 000FK6XR1 Budget (BOC): 2532 Cost: 26A6A DCN - Line ID: 19262WC926-001 Funding Flag: Partial Funded: \$0.00</p> <p>Accounting Info: 19-20-CR-262WX04-000FK7XR3-2532-26A5C- 19262WC926-002 BFY: 19 EFY: 20 Fund: CR Budget Org: 262WX04 Program (PRC): 000FK7XR3 Budget (BOC): 2532 Cost: 26A5C DCN - Line ID: 19262WC926-002 Funding Flag: Partial Funded: \$43,804.00</p>				43,804.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$43,804.00

Performance Work Statement (PWS)
68HERC20F0022

Title: Enhanced Efficiency Fertilizer Workshop and Journal Article

I. Purpose

The purpose of this purchase order is to provide services to the staff of the Environmental Protection Agency (EPA) Office of Research and Development (ORD) in the National Center for Environmental Assessment (NCEA) in Washington, D.C.

The Contractor shall provide logistical support for a 1.5- day workshop, using a workshop plan to be provided by the Task Order Contracting Officer's Representative (TO-COR) in advance of the workshop.¹ The workshop will be structured around providing feedback to the EPA and USDA on a new collaborative project being developed to assess the potential for Enhanced Efficiency Fertilizers (EEFs) to be used more widely in the U.S. Participants at the workshop shall include approximately 80 experts in agronomy, biogeochemistry, economics, and other fields, from across Federal agencies, states, non-governmental agencies, and academia. The draft plan for the workshop and supporting background materials for the participants to receive prior to the workshops will be supplied by the TO-COR. The workshop will take place in Washington, D.C., at the EPA's Potomac Yards facility in Crystal City, VA, on October 28-29, 2019. The period of performance of this purchase order shall be from date of award to one year thereafter.

II. Background

The U.S. Environmental Protection Agency (EPA) and the U.S. Department of Agriculture (USDA) have been working for decades to reduce nutrient losses from agricultural lands and improve water quality. Despite significant reductions in nutrient export/release from agricultural lands through voluntary programs, water quality remains a challenge in the U.S., with 34-41% of lakes and 41-46% of rivers and streams impacted by nitrogen and phosphorus.² The EPA and USDA have begun discussions to tackle this challenge by examining the potential of enhanced efficiency fertilizers (EEFs) in U.S. agriculture using non-regulatory and market-based solutions. EEFs have shown remarkable promise in test studies, maintaining or slightly increase yields while reducing nutrient losses by 10-40%.³ Despite this potential, EEFs remain underutilized in the U.S. because of cost, social barriers to adoption, and a general lack of trusted information on their performance. Building a robust EEF industry in the U.S. could have multiple

¹ The draft agenda is attached in Appendix A

² USEPA. 2016. National Lakes Assessment 2012: A Collaborative Survey of Lakes in the United States. EPA 841-R-16-113. National Rivers and Streams Assessment 2008-2009: A Collaborative Survey (EPA/841/R-16/007). Washington, DC. March 2016.

³ Li, T., et al. (2018). "Enhanced-efficiency fertilizers are not a panacea for resolving the nitrogen problem." *Global Change Biology* 24(2): e511-e521.

benefits, creating jobs for Americans, and maintaining our high agricultural productivity while greatly reducing its environmental footprint. The proposed multi-year, multi-agency, collaboration described here is consistent with the December 2018 letter⁴ from David P. Ross (Assistant Administrator, Office of Water, EPA) and Bill Northey (Under Secretary, Farm Production and Conservation, USDA), to work together to improve water quality while improving the efficiency of land use practices on U.S. farms.

The workshop described in this PWS will kickoff a multi-year collaboration between EPA and USDA to examine the potential for enhanced efficiency fertilizers in the U.S. The overall goal of the joint-agency collaboration is to reduce the environmental impacts from U.S. agriculture while maintaining profitability and productivity. The specific goal is to support the development of EEFs for corn that meets three goals:

- (1) is cost-effective relative to traditional fertilizers,
- (2) does not reduce yields relative to traditional practices, and
- (3) leads to significant reductions in losses of N and P to the environment.

The overall architecture by which we propose to meet these specific goals includes seven major activities:

Activity 1: Kickoff workshop. Discuss and refine the overall project architecture, with specific attention on the Joint EPA-USDA Challenge.

Activity 2: Joint EPA-USDA Challenge. Conduct a two-stage Challenge to (Stage 1) solicit submissions from interested parties (i.e. industry, academia, the public) that describe the biochemistry of an EEF either already on the market or under development, along with the environmental and agronomic performance with any preliminary data. A judging panel will be convened including representatives from government, industry, and academia, to rank and judge the submissions. Successful submissions will be invited to submit a physical amount (Stage 2) of their EEF which will be blind-tested in Activity 4 per the submittant's recommendations. Cash prize (est. \$25-50k) will be distributed to the winners of the Challenge.

Activity 3: Literature review and meta-analysis of EEFs. In parallel with Activities 1 and 2, EPA and USDA will conduct a literature review and meta-analysis of peer-reviewed information on the effectiveness of EEFs for use on corn in the U.S. Non-peer-reviewed information will be included in the literature review but not included in the meta-analyses.

Activity 4: Field Trials. Stage 2 EEF submissions will be split and sent to eight USDA ARS Long Term Agricultural Research (LTAR) stations for field testing over two years in the growing seasons for 2020 and 2021. EEFs will be applied as recommended on the submissions, provided the recommendations are consistent with common agronomic practices, and compared with a control using conventional fertilizers.

⁴ <https://www.epa.gov/sites/production/files/2018-12/documents/andersen-kansas-joint-letter.pdf>

Activity 5: Joint Report and Workshop II.⁵ Researchers from USDA and EPA will analyze the results from the two-year field trials and jointly write a report of their findings, which will be publicly released at the second Workshop. Along with the scientific results from Activity 4, Workshop II will include industry representatives and farmers interested in reducing the environmental footprint of agriculture while maintaining yields.

Activity 6: Production Trials. Farmers will be invited to participate in the effort, to grow corn with EEFs from Stage 2 with assistance on how to use them and assess performance and share their experiences with other growers at Workshop II. Depending on the farmers' risk tolerance, Activity 6 may occur in parallel or after Activity 4.

Activity 7: Outreach and Long-term Tracking. Contingent on the outcome of earlier Activities, we may develop a plan for outreach and long-term tracking. The outreach effort may include participation from Certified Crop Advisors, USDA Extension Programs, Land Grant Universities, and any other relevant organization. Outreach may also include detailed instructions, on-field training programs, online training and webinars, and other outreach material. Long-term tracking could be discussed at the fertilizer sales level (e.g. AAPFCO), application and use (e.g. NASS, ERS, etc.), or watershed-level outcome (e.g. leveraging NAWQA, NARS).

III. Scope of Work

The scope of work is to provide logistical support for a 1.5-day workshop, deliver a post-workshop report, and to write up a journal article on the effectiveness of EEFs from a database compiled from a recent USDA Contract.⁶

Task 1 - Establish Communications and develop QAPP

Within 7 days of the purchase order award, the Contractor shall convene a conference call with the TO-COR and appropriate contractor staff to confirm task deliverables and project schedule. The Contractor shall establish regular conference calls with the TO-COR to discuss progress and resolve any technical difficulties. At the beginning of the project it is likely that the calls will occur weekly as the date for the workshop is near (October 28-29) for no more than 1 hour, with a switch to monthly calls or as needed after the workshop report is delivered. Calls may include other members of the workshop Technical Steering Committee (TSC; i.e., EPA partners from other agencies/organizations) as needed at the request of the TO-COR. The Contractor shall initiate additional communication with the TO-COR should developments arise that may affect the schedule of this task order or any of the task deliverables outlined therein.

⁵ We intend to complete Activities 1-5, and Activities 6 and 7 are optional depending on the outcome of the effort.

⁶ This was performed under USDA Contract #GS-00F-010CA; PO# 12314218F0171.

The Contractor shall prepare a Quality Assurance Project Plan (QAPP). The QAPP is only needed for Task 4. Work on Tasks 2 and 3 may begin without the QAPP. No work on Task 4 may begin without approval of the QAPP. The QAPP shall describe the application of QA and QC activities for the project under this statement of work. The QAPP shall be developed in accordance with EPA Requirements for Quality Assurance Project Plans (EPA QA/R-5, EPA/240/B-01/003, 03/20/01, available at: <http://www.epa.gov/quality/qs-docs/r5-final.pdf>). The Contractor shall use the following QA tracking number: B-DC-0032074-EP-1-0.

Task 2 – Pre-workshop support

Pre-workshop support from the Contractor shall include, in consultation with the TO-COR: reviewing the plan for the workshop; sending invitation materials to participants; compensating non-Federal workshop participants for travel (up to roughly \$1200 per person); and reviewing, revising, and sending background materials to the workshop participants in advance of the workshop. All materials and communications will be electronic. A draft of the workshop plan is in Appendix A and the final version will be provided by the TO-COR to the Contractor after award of the contract.

A. Review workshop facilities and equipment

The TO-COR has already reserved the venue at EPA Potomac Yards One facilities in Crystal City, VA, from Oct 28-29.⁷ The workshop is tentatively expected to last 1.5 days, beginning at 8:30 each day, which would entail two nights lodging for most participants. There are several hotels in the immediate vicinity Potomac Yards One. The room shall accommodate up to 100 participants. The TO-COR has also arranged for two smaller rooms on the second day for breakout groups. The EPA facilities manager and the TO-COR have already arranged for a projector and screen, microphone, and computer. The Contractor will provide a laser pointer, easel paper, markers, notepads (for participants), pens and pencils.

B. Confirm workshop participation

The TO-COR shall provide the Contractor with a list of proposed experts (also in the draft agenda in Appendix A). The TO-COR has already hosted several phone calls in preparation for the Workshop separately for Federal and non-Federal participants. The Contractor shall contact these experts to confirm that they are available to attend the workshop. Non-Federal participants come from three domains: industry, academia, and non-governmental organizations. The Contractor shall be responsible for making travel and lodging arrangements (or reimbursing those that choose to make their own arrangements) for non-Federal participants that we are supporting⁸ consistent with U.S. government travel, lodging, and per diem allowances. Airfare will be reimbursed at actual cost. It is anticipated that there will be approximately 15 non-Federal attendees receiving support. The contractor shall not compensate or reimburse Federal personnel.

⁷ The location is at EPA Conference Center, Potomac Yard One, 2777 Crystal Dr, Arlington, VA 22202.

⁸ We intend to provide support for academics only, and have already discussed with industry that they will be paying their own way. For the third category (NGOs) the TO-COR will make that decision on a case-by-case basis.

C. Participant invitations and logistics

The Contractor shall be responsible for handling invitations and registration for all participants prior to the workshop. The Contractor shall submit a draft letter of invitation for review and comment by the TO-COR, after which the Contractor shall finalize the letter for use in sending email invitations. The Contractor shall email letters of invitation to each workshop participant and provide for an attendance confirmation mechanism.

Two weeks prior to the workshop, the Contractor shall send all participants packages that include a proposed agenda (developed in consultation with the TO-COR) and general information on the workshop. The contractor shall instruct the workshop participants to review the workshop material and submit comments prior to date of workshop.

Copies of all mailings shall be sent to the Contracting Officer's Representatives (COR) as well as the TO-COR for review in advance of mailing. The Contractor shall maintain a current address list of all workshop participants.

Task 3 – Onsite and post-workshop support

The Contractor shall provide on-site logistical support during the workshop and compile a post-workshop report.

A. Onsite workshop support

At the workshop, the Contractor shall: serve as liaison with meeting facility staff; register invited participants and observers; answer questions for participants and observers; assist the meeting facilitator(s); copy and distribute information generated at the workshop; and ensure that audio/visual equipment is working properly. The Contractor shall be responsible for collecting and maintaining all materials (e.g., workshop presentations, handouts) to facilitate the post-workshop report.

B. Workshop report

Two weeks after the workshop, the Contractor shall submit a draft post-workshop report, including: names and contact information for all final participants; the finalized workshop agenda; a copy of any finalized exercise(s) used at the workshop; a compilation of all presentations given at the workshop; any relevant materials submitted by participants prior to or during the workshop; and notes of the rapporteurs at the workshop, consolidated/integrated as per discussion with the TO-COR. A final report will be submitted within two weeks of receiving TO-COR comments on the draft report.

IV. SCHEDULE AND DELIVERABLES

Task	DELIVERABLES	DATE
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Task 1	Establish Communications Status Updates Draft QAPP Final QAPP	One week after date of award Weekly followed by monthly Three weeks after workshop One week after Draft QAPP
Task 2	Pre-workshop support A. Review workshop facilities and equipment B. Confirm workshop participation C. Participant invitations and logistics	Two weeks after date of award. Two weeks after date of award. Two weeks after date of award.
Task 3	Onsite and post-workshop support A. Onsite workshop support B. Post-workshop report	At workshop Draft two weeks after workshop, final two weeks after TO-COR comments

V. Notice Regarding Guidance Provided Under This Purchase Order

Guidance is strictly limited to technical and analytical support. The contractor shall not engage in activities of an inherent governmental nature such as the following:

- (1) Formulation of Agency Policy
- (2) Selection of Agency priorities
- (3) Development of Agency regulations

Should the contractor receive any instruction from an EPA staff person that the contractor ascertains to fall into any of these categories or goes beyond the scope of the purchase order, the contractor shall immediately contact the Project Officer. The contractor shall also ensure that work under this purchase order does not contain any apparent or real personal or organizational conflict of interest. The contractor shall certify that none exists at the time the proposal is submitted to the EPA.

Appendix A: Draft Workshop Planning Document and Agenda

Proposed EPA-USDA Collaborative Effort: Improving Agricultural Nutrient Use through Enhanced Efficiency Fertilizers

Problem Statement: The U.S. Environmental Protection Agency (EPA) and the U.S. Department of Agriculture (USDA) have been working for decades to reduce nutrient losses from agricultural lands and improve water quality. Despite significant reductions in nutrient export/release from agricultural lands through voluntary programs, water quality remains a challenge in the U.S., with 34-41% of lakes and 41-

46% of rivers and streams impacted by nitrogen and phosphorus.⁹ The EPA and USDA have begun discussions to tackle this challenge by examining the potential of enhanced efficiency fertilizers (EEFs) in U.S. agriculture using non-regulatory and market-based solutions. EEFs have shown remarkable promise in test studies, maintaining or slightly increase yields while reducing nutrient losses by 10-40%.¹⁰ Despite this potential, EEFs remain underutilized in the U.S. because of cost, social barriers to adoption, and a general lack of trusted information on their performance. Building a robust EEF industry in the U.S. could have multiple benefits, creating jobs for Americans, and maintaining our high agricultural productivity while greatly reducing its environmental footprint. The proposed multi-year, multi-agency, collaboration described here is consistent with the December 2018 letter¹¹ from David P. Ross (Assistant Administrator, Office of Water, EPA) and Bill Northey (Under Secretary, Farm Production and Conservation, USDA), to work together to improve water quality while improving the efficiency of land use practices on U.S. farms. Purpose: This workshop will kickoff a multi-year collaboration between EPA and USDA to examine the potential for enhanced efficiency fertilizers in the U.S. The overall goal of the joint-agency collaboration is to reduce the environmental impacts from U.S. agriculture while maintaining profitability and productivity. The specific goal is to support the development of EEFs for corn that meets three goals:

- (4) is cost-effective relative to traditional fertilizers,
- (5) does not reduce yields relative to traditional practices, and
- (6) leads to significant reductions in losses of N and P to the environment.

The architecture by which we propose to meet these specific goals includes seven major activities:

Activity 1: Kickoff workshop. Discuss and refine the overall project architecture, with specific attention on the Joint EPA-USDA Challenge.

Activity 2: Joint EPA-USDA Challenge. Conduct a two-stage Challenge to (Stage 1) solicit submissions from interested parties (i.e. industry, academia, the public) that describe the biochemistry of an EEF either already on the market or under development, along with the environmental and agronomic performance with any preliminary data. A judging panel will be convened including representatives from government, industry, and academia, to rank and judge the submissions. Successful submissions will be invited to submit a physical amount (Stage 2) of their EEF which will be blind-tested in Activity 4 per the submitter's recommendations. Cash prize (est. \$25-50k) will be distributed to the winners of the Challenge.

Activity 3: Literature review and meta-analysis of EEFs. In parallel with Activities 1 and 2, EPA and USDA will conduct a literature review and meta-analysis of peer-reviewed information on the effectiveness of EEFs for use on corn in the U.S. Non-peer-reviewed information will be included in the literature review but not included in the meta-analyses.

Activity 4: Field Trials. Stage 2 EEF submissions will be split and sent to eight USDA ARS Long Term Agricultural Research (LTAR) stations for field testing over two years in the growing seasons for 2020 and 2021. EEFs will be applied as recommended on the submissions, provided the recommendations are consistent with common agronomic practices, and compared with a control using conventional fertilizers.

Activity 5: Joint Report and Workshop II.¹² Researchers from USDA and EPA will analyze the results from the two-year field trials and jointly write a report of their findings, which will be publicly released at the second Workshop. Along with the scientific results from Activity 4, Workshop II will include industry representatives and farmers interested in reducing the environmental footprint of agriculture while maintaining yields.

⁹ USEPA. 2016. National Lakes Assessment 2012: A Collaborative Survey of Lakes in the United States. EPA 841-R-16-113. National Rivers and Streams Assessment 2008-2009: A Collaborative Survey (EPA/841/R-16/007). Washington, DC. March 2016.

¹⁰ Li, T., et al. (2018). "Enhanced-efficiency fertilizers are not a panacea for resolving the nitrogen problem." *Global Change Biology* 24(2): e511-e521.

¹¹ <https://www.epa.gov/sites/production/files/2018-12/documents/andersen-kansas-joint-letter.pdf>

¹² We intend to complete Activities 1-5, and Activities 6 and 7 are optional depending on the outcome of the effort.

Activity 6: Production Trials. Farmers will be invited to participate in the effort, to grow corn with EEFs from Stage 2 with assistance on how to use them and assess performance, and share their experiences with other growers at Workshop II. Depending on the farmers' risk tolerance, Activity 6 may occur in parallel or after Activity 4.

Activity 7: Outreach and Long-term Tracking. Contingent on the outcome of earlier Activities, we may develop a plan for outreach and long-term tracking. The outreach effort may include participation from Certified Crop Advisors, USDA Extension Programs, Land Grant Universities, and any other relevant organization. Outreach may also include detailed instructions, on-field training programs, online training and webinars, and other outreach material. Long-term tracking could be discussed at the fertilizer sales level (e.g. AAPFCO), application and use (e.g. NASS, ERS, etc.), or watershed-level outcome (e.g. leveraging NAWQA, NARS).

The proposed timeline for the above Activities is in Figure 1.

Figure 1: Proposed timeline for the key Activities

	FY19				FY20				FY21				FY22				FY23				FY24			
Major Activity	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Assemble teams																								
Kickoff workshop																								
Lit Review and Meta																								
EPA-USDA Challenge																								
Experimental Trials																								
Production Trials																								
Joint Report Dev																								
Workshop II / Report																								
Outreach																								

Note: The cell highlighted in red is the required planting date to meet the goal of having two years of data complete by the end of 2021.

Details for Activity 1: Kickoff Workshop

Charge for this workshop: There are two primary charges for the workshop: (1) discuss and modify the overall architecture and sequence of the Activities, and (2) refine and finalize language for the EPA-USDA Challenge.¹³

Output: There are two outputs from the workshop related to the two Charges: (1) Development of the "Project Roadmap" describing the overall architecture and sequence of Activities for this collaborative effort, (2) Final decisions for the Joint EPA-USDA Challenge.

Timeframe: October 28-29, 2019.

Location: EPA Conference Center, Potomac Yard One, 2777 Crystal Dr, Arlington, VA 22202

Participants: See Table 1.

Proposed Workshop Agenda: See Table 2

Post-Workshop Activities: Subsequent activities will follow the revised "Project Roadmap," (draft in Appendix I) but we anticipate short term activities to include: (1) conducting the Joint EPA-USDA Challenge, (2) initiating plans for Activity 4 scheduled for the 2020 field season, and (3) continuing/accelerating the literature review and meta-analysis of EEFs and corn in the U.S.

¹³ Subsequent meetings with interested parties will focus on other components of the project (e.g. review of Challenge submissions, development of field protocols for Activity 4, etc.)

*Table 1: Proposed participants for the workshop (*invited, **confirmed), sorted alphabetically by Fed/Non, Agency, Office, Name.*

Name	Fed/Non	Agency/Organization	Office	email
Daniel Northrup	Fed	DOE	ARPA-E	daniel.northrup@hq.doe.gov
David Babson	Fed	DOE	ARPA-E	david.babson@hq.doe.gov
Hema Subramanian	Fed	EPA	OA	Subramanian.Hema@epa.gov
Tate Bennet	Fed	EPA	OA	Bennett.Tate@epa.gov
Tom Wirth	Fed	EPA	OAR/OAP	Wirth.Tom@epa.gov
Kelly Tindall, Rock Shamblen, Bill	Fed	EPA	OCSPP	
Nathan Mellor	Fed	EPA	OCSPP	mellor.nathan@epa.gov
Mindy Ondish	Fed	EPA	OCSPP	ondish.mindy@epa.gov
Scott Garrison	Fed	EPA	OGC/FIFRA	Garrison.Scott@epa.gov
Bruce Rodan	Fed	EPA	ORD/IO	rodan.bruce@epa.gov
David Dunlap	Fed	EPA	ORD/IO	dunlap.david@epa.gov
Anne Rea	Fed	EPA	ORD/IOAA	Rea.Anne@epa.gov
Denice Shaw	Fed	EPA	ORD/IOAA	Shaw.Denice@epa.gov
Christopher Clark	Fed	EPA	ORD/NCEA	Clark.christopher@epa.gov
Emma Lavoie	Fed	EPA	ORD/NCEA	Lavoie.Emma@epa.gov
Scot Hagerthey	Fed	EPA	ORD/NCEA	Hagerthey.Scot@epa.gov
Jana Compton	Fed	EPA	ORD/NHEERL	Compton.Jana@epa.gov
Anna Wildeman	Fed	EPA	OW/IO	wildeman.anna@epa.gov
Owen McDonough	Fed	EPA	OW/IO	mcdonough.owen@epa.gov
Jennie Pugliese	Fed	EPA	OW/OWOW	Pugliese.Jennie@epa.gov
Katie Flahive	Fed	EPA	OW/OWOW	flahive.katie@epa.gov
Lynda Hall	Fed	EPA	OW/OWOW	Hall.Lynda@epa.gov
Tom Wall	Fed	EPA	OW/OWOW	Wall.Tom@epa.gov
Gerald "Dean" Winn	Fed	EPA	Regional Ag Advisor R5 (IL+)	winn.gerald@epa.gov
Doug Jones	Fed	EPA	Regional Ag Advisor R7 (IA+)	jones.doug@epa.gov
Suzanne van Drunick	Fed	EPA	ORD/IO	vanDrunick.Suzanne@epa.gov
Troy Pierce	Fed	EPA	Regional - GOM	Pierce.Troy@epa.gov
Rebecca Perrin	Fed	EPA	Regional Ag Advisor R8 (SD+)	perrin.rebecca@epa.gov
David Knaebel	Fed	USDA	ARS	David.Knaebel@ARS.USDA.GOV
Jorge Delgado	Fed	USDA	ARS	Jorge.Delgado@ARS.USDA.GOV
Marlen Eve	Fed	USDA	ARS	Marlen.Eve@ARS.USDA.GOV
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Rod Venterea	Fed	USDA	ARS	Rod.Venterea@ARS.USDA.GOV
Steve DelGrosso	Fed	USDA	ARS	Steve.DelGrosso@ARS.USDA.GOV
Teferi Tsegaye	Fed	USDA	ARS	Teferi.Tsegaye@ARS.USDA.GOV
Ali Mohamed	Fed	USDA	NIFA/IBCE	ali.mohamed@usda.gov
Karelyn Cruz	Fed	USDA	NIFA/IBCE	Karelyn.cruz@nifa.usda.gov
Bianca Moebius-Clune	Fed	USDA	NRCS	Bianca.Moebius-Clune@wdc.usda.gov
Chris Gross	Fed	USDA	NRCS	Chris.gross@usda.gov
Dana Ashford-Kornburger	Fed	USDA	NRCS	dana.ashford@wdc.usda.gov
Katheryn Zook	Fed	USDA	OCE	kzook@oce.usda.gov
Marci Baranski	Fed	USDA	OCE	mbaranski@oce.usda.gov
William Hoenstein	Fed	USDA	OCE	WHOENST@oce.usda.gov
Scott Hutchins	Fed	USDA	OCS	Scott.Hutchins@usda.gov
Peter Vadas	Fed	USDA	ARS	peter.vadas@usda.gov
X	Non-Fed	Certified Crop Advisors		
X	Non-Fed	Certified Crop Advisors 2		
X	Non-Fed	Certified Crop Advisors 3		
Dan Froehlich	Non-Fed	Industry	Anuvia	dfroehlich@anuvianutrients.com
Deneen Sebastian	Non-Fed	Industry	BAF	deneen.sebastian@basf.com
Brooks Coetzee	Non-Fed	Industry	Corteva	brooks.coetzee@corteva.com
Greg Schwab	Non-Fed	Industry	Koch Agronomics	greg.schwab@kochind.com
Ethan Enochs	Non-Fed	Industry	MicroSource	Ethan.Enochs@microSourceLLC.com
Alan Blaylock	Non-Fed	Industry	Nutrien	alan.blaylock@nutrien.com
Steven Liebelt	Non-Fed	Industry	OCI Nitrogen	steven.liebelt@n-7llc.com
Taylor Pursell	Non-Fed	Industry	Pursell Technology	taylor@fertilizer.com
Terry Tindall	Non-Fed	Industry	Simplot	Terry.Tindall@simplot.com
Bill Easterwood	Non-Fed	Industry	Yara	bill.easterwood@yara.com
Bob O'Leary	Non-Fed	Industry	CF Industries	ROleary@cfindustries.com
Thomas Mannheim	Non-Fed	Industry	Eurochem	Thomas.Mannheim@eurochemgroup.com
X	Non-Fed	Non-profit	Crop Life?	
Alison Eagle	Non-Fed	Non-profit	EDF	aeagle@edf.org
Nathan Fields	Non-Fed	Non-profit	NCGA	fields@ncga.com
Colleen Willard	Non-Fed	Non-profit	NCGA	willard@ncga.com
Lara Moody	Non-Fed	Non-profit	TFI	lmoody@tfi.org
Sally Flis	Non-Fed	Non-profit	TFI	sflis@tfi.org
Carrie Vollmer-sanders	Non-Fed	Non-profit	TNC	csanders@tnc.org
Pipa Elias	Non-Fed	Non-profit	TNC	pipa.elias@tnc.org
Bryon Hopkins	Non-Fed	University	BYU	hopkins@byu.edu
Jim Ippolito	Non-Fed	University	Colorado State University	Jim.Ippolito@ColoradoState.edu
Charles Rice	Non-Fed	University	Kansas State University	cwrice@ksu.edu
Dustin Harrell	Non-Fed	University	Louisiana State University	DHarrell@agcenter.lsu.edu
Bobby Golden	Non-Fed	University	Mississippi State University	bobby.golden@msstate.edu
David Kanter	Non-Fed	University	New York University	david.kanter@nyu.edu
Katie Lewis	Non-Fed	University	Texas A&M	katie.lewis@ag.tamu.edu
Josh McGrath	Non-Fed	University	University of Kentucky	josh.mcgrath@uky.edu
Eric Davidson	Non-Fed	University	University of Maryland	edavidson@umces.edu
Fabian Fernandez	Non-Fed	University	University of Minnesota	fabiangf@umn.edu
Kelly Nelson	Non-Fed	University	University of Missouri	NelsonKe@missouri.edu
Ken Cassman	Non-Fed	University	University of Nebraska	kcassman1@unl.edu
James Galloway	Non-Fed	University	University of Virginia	jng@virginia.edu
William Hunter Frame	Non-Fed	University	Virginia Tech	whframe@vt.edu
Carrie Laboski	Non-Fed	University	University of Wisconsin	laboski@wisc.edu
Nick Young	Non-Fed	Non-profit	AAPFCO	nick.young@cdfa.ca.gov

Table 2: Draft Agenda for Workshop I

Day 1: Monday October 28, 2019. Conference Center, Potomac Yard One, 2777 Crystal Dr, Arlington, VA 22202

Time	Theme	Topic	Speaker
8:30 - 8:40	Welcome and Overview	Welcome and workshop logistics	Clark
8:40 – 8:55		Welcome, Introduction, and Charge for the Workshop	TBD: Dunlap/OW/van Drunicks
8:55 – 9:10		USDA perspective	Hohenstein
9:10 – 9:35		NCGA perspective	TBD: Nathan Fields/Colleen Willard
9:35 – 9:50		TFI perspective	Moody
9:50 – 10:05		Overview of the chemistry and effectiveness of EEFs	Jaglo
10:05 – 10:20		Break and snack	
10:20 – 10:50	Project overview and Breakout Group 1	Overview of the Project	Clark
10:50 – 11:00		Clarifying questions	All
11:00 – 12:00		Breakout groups and charge questions ¹⁴	All
12:00 – 12:30		Report out from breakouts	All
12:30 – 1:30	Lunch		
1:30 – 1:40		Report out on changes to project structure	Clark
1:40 – 2:00	Review of EEF chemistry, agronomics, and effectiveness	Research talk 1	Venterea/Delgado?
2:00 – 2:20		Research talk 2	Kelly Nelson?
2:20 – 2:40		Research talk 3	X?
2:40 – 2:55		Break	
2:55 – 3:10	Opportunities and barriers to adoption and use of EEFs	Opportunities and barriers to adoption 1: Socioeconomics	Rodger Classen?
3:10 – 3:25		Opportunities and barriers to adoption 2: Logistics (distribution and farm-level)	Retailer/Farmer?
3:25 – 3:40		Opportunities and barriers to adoption 3: Production (at the fertilizer plant)	Moody
3:40 – 4:00	Pertinent state and federal policies	Overview of the PRIA permitting process	OCSPP
4:00 – 4:20		Overview of state policies	AAPFCO rep.
4:20 – 4:40		Overview of the PRIA permitting experience	Moody
4:40 – 5:00	Wrap-up	Day 1 wrap-up and plan for Day 2	Clark
5:00 – 7:00		Happy Hour – Location TBD	

¹⁴ Note that breakout groups will be organized by groups of activity (see below) with mixed composition (i.e. across industry, government, academia, etc.) to encourage cross-fertilization of ideas.

Day 2: Tuesday October 29, 2019. Potomac Yard One, 2777 Crystal Dr, Arlington, VA 22202

8:30-8:50	The Value of Challenges	Everglades Foundation	???
8:50-9:20		Plenary: Overview of Stage 1 (Concept papers) and Stage 2 (field trials)	Clark
9:20 – 9:30		Clarifying questions, group discussion	
9:30-11:30		Separate breakout groups and charge questions.	All
11:30-12:00		Breakout groups report	All
12:00-12:15		Group Discussion	
12:15-1:15	Lunch		
1:15 – 1:30		Revisions to Stage 1 and 2	Clark
1:30 – 3:30	Extra time - TBD	Several options: Partnering with “early-adopter” farmers, collecting data on EEF use, long term tracking of watershed-level effects (e.g. Phases 5-6)	

Charge Questions for Breakout Groups

Breakout 1: Overview of the Project (11-12 am, Day 1)

- Group 1&2: Overall and Activities 3
 1. What strengths and weaknesses do you see from the overall project structure and goals?
 2. The literature review and meta-analysis will attempt to focus on peer reviewed published results from field trials growing corn in the U.S. comparing EEFs (e.g. nitrification inhibitors, urease inhibitors, polymer coated fertilizers for N and N&P) with traditional fertilizers. What do you think about constraining the effort to peer-reviewed field trials on corn in the US? (i.e. should we expand to non-peer reviewed papers, lab/greenhouse trials, crops other than corn, trials outside of the U.S.). Please comment on each.
 3. The literature review and meta-analysis will attempt to focus on five measures of environmental performance (i.e. nitrate and phosphorus leaching, runoff, ammonia volatilization, nitrous oxide production, toxicity of residue and leachate/runoff), and four measures of agronomic performance (i.e. yield, cost, compatibility with existing practices and machinery, other storage and transport logistics). Any comments on that plan?
 4. How do you recommend we utilize the results from the literature review in the Challenge (and vice versa)?
 5. Are there any connections with other Activities that you think we should strengthen?
- Group 3&4: Overall and Activity 6
 1. What strengths and weaknesses do you see from the overall project structure (i.e. Activities 1-7)?
 2. How important are production field trials overall, and if important, do you think they should be in parallel with or after the Federal field trials in Activity 4 (or is that up to the farmers to decide)?
 3. How do you recommend we reach out to potentially interested farmers and who (or what groups) do you think may be potentially interested?
 4. For the production field trials, we may not be able to collect as much data as with Activity 4, and the plan was to simply focus on yield and conduct a voluntary survey of farmers' experiences.¹⁵ Any comments?
 5. For the production field trials, it may be possible to deploy DOE/ARPA-E developed sensors to individual farmers, what do you see are the strengths and weaknesses of that possibility?
 6. Are there any connections with other Activities that you think we should strengthen?
- Group 5&6: Overview, Activity 7, and Opportunities
 1. What strengths and weaknesses do you see from the overall project structure (i.e. Activities 1-7)?
 2. Who (or what group(s)) do you think should conduct the outreach activities discussing the results of the effort and recommendations for farmers (e.g. EPA, USDA, extension programs, land grant universities, certified crop advisors, fertilizer companies?), and how do you recommend it be conducted (online tutorials, in person training, farmer visits)?
 3. How do you recommend information be collected (and by whom) on EEF sales, use, and effects moving forward? Please comment on each.

¹⁵ There is also a possibility for deployment of ARPA-E "farm arrays," (Q5) but that is more uncertain.

4. What do you see as the key barriers to adoption of EEFs for growing corn in the U.S. and what are the opportunities to overcome them?
5. How do you envision EEFs fitting into a larger scheme of conservation practices (e.g. tillage practices, buffer strips)?
6. Are there any connections with other Activities that you think we should strengthen?

Breakout 2: Challenge and Field Trials (9:30 – 11:30 am, Day 2)

- Groups of 5-8 people?: Challenge (please review the Competition Information, Criteria, and Guidelines document).
 1. Are the goals of the Challenge appropriate and clear?
 2. How important are the explicit incentives for participation in the Challenge (i.e. cash prize and invitation to the second workshop) and do you recommend any changes to the incentives whether explicit or implicit?
 3. There are two required criteria for the Challenge: agronomic performance (i.e. measured as yields and cost competitiveness) and environmental performance (Reduce nutrient losses of N and/or P to the environment, by reductions in one or more pathways including to surrounding waterways (i.e. runoff, leaching), or to the atmosphere (i.e. ammonia volatilization, nitrous oxide production). Any comments on those?
 4. There are four additional desirable characteristics, the EEF should: (1) be compatible with existing farm machinery and practices, (2) leave no toxic residues on or in the soil following use, (3) be affordable relative to conventional practices (with or without yield increases and/or offset payments, e.g. from EQIP), (4) be safe to transport, store, and use. Any comments on these?
 5. Any comments on the scoring sheet and how should scores across performance metrics be aggregated (or should they be)?
 6. Any other comments on the Challenge Criteria document?
- Groups of 5-8 people: Field Trials
 1. What do you think of testing at eight LTAR sites that represent corn areas in the U.S. (i.e. list them here)?
 2. Do you think supplemental testing at land grant universities should be explored and if so how?
 3. The FIFRA permitting process applies to inhibitor-type EEFs (i.e. nitrification inhibitors and urease inhibitor). Polymer-coating type EEFs (slow release fertilizers) are exempt from FIFRA. A waiver from Experimental Use Permits (EUP) under FIFRA is allowed if the total area for field trials does not exceed 10 acres in a watershed. This must be kept in mind when designing the field trials (e.g. number of plots, size of plots, replicates, treatments, etc.). What are your thoughts on planning to keep the total area tested below 10 acres within a watershed
 4. Given #3, in each of the test sites what do you recommend in terms of the number of plots, size of plots, number of treatments (i.e. different fertilizer levels and frequencies, different tillage practices, etc.).¹⁶ Note that one of the recommended treatments must be the recommendation from the EEF producer, though others are allowed in addition. Also note that the 10 acre limit does not apply to the control plots where no EEF is applied.
 5. What instrumentation is currently available at LTAR test sites (and land grant universities if deemed advantageous), and how should it be deployed and/or supplemented?

¹⁶ For example, assuming a plot size of 100 x 100m (1 ha), with five different EEFs to test, there could only be two plots per EEF (so either one treatment with two replicates, or two different treatments (e.g. 100% recommended level, 50% recommended level) with zero replication). Thus, it may be that the plots have to be relatively small to include various factors of interest.

6. Should all eight LTAR sites have exactly the same treatments (or at least a subset that are common), or should they be modified to account for different locally recommended practices from extension programs?
7. Laboratory or greenhouse tests are also exempt from the EUP under FIFRA. We have decided not to include laboratory or greenhouse tests because (1) field results are more comparable to farm-scale results, and (2) limited resources. However, given that we are likely to miss the 2020 planting date due to time constraints, perhaps we should build in laboratory or greenhouse tests for the summer of 2020 with the field campaign the summers of 2021-2022. Thoughts?
8. Any other comments on the field trials?

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGES		
					1 3		
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C		PR-ORD-19-02363			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD							
US Environmental Protection Agency							
26 West Martin Luther King Drive							
Mail Code: W136							
Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)		9A. AMENDMENT OF SOLICITATION NO.	
ICF Incorporated, L.L.C.							
Attn: Robert Toth							
9300 LEE HIGHWAY						9B. DATED (SEE ITEM 11)	
FAIRFAX VA 220316050							
				x		10A. MODIFICATION OF CONTRACT/ORDER NO.	
						68HERC19D0003	
						68HERC20F0022	
						10B. DATED (SEE ITEM 13)	
						10/18/2019	
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Increase:		\$6,108.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE		A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
		B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
		C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
		D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: Christopher Clark							
LIST OF CHANGES:							
Reason for Modification: The purpose of this amendment is to execute the amended requirements of the PWS and to fund this amendment.							
Total Amount for this Modification: \$6,108.00							
New Total Amount for this Version: \$49,912.00							
New Total Amount for this Award: \$49,912.00							
Obligated Amount for this Modification: \$6,108.00							
New Total Obligated Amount for this Award: \$49,912.00							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 01/16/2020	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0022/P00001	PAGE	OF
		2	3

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>CHANGES FOR LINE ITEM NUMBER: 1</p> <p>Total Amount changed from \$43,804.00 to \$49,912.00 Obligated Amount for this Modification: \$6,108.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-262W000-000FK6XR1-2532-26A6A-19262WC926-001 1 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 262W000 Program (PRC) 000FK6XR1 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A6A DCN-LineID 19262WC926-001</p> <p>Amount: \$4,293.70</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-CR-262WX04-000FK7XR3-2532-26A5C-19262WC926-002 02 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) CR Budget Organization 262WX04 Program (PRC) 000FK7XR3 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 19262WC926-002</p> <p>Amount: \$168.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-26D2000-000FK6XR1-2532-26A5C-19262WC926-003 3 Beginning FiscalYear 19 Ending Fiscal Year 20 Continued ...</p>				

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0022/P00001	PAGE	OF
		3	3

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Fund (Appropriation) C Budget Organization 26D2000 Program (PRC) 000FK6XR1 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 19262WC926-003 Amount: \$1,646.30 Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/18/2019 to 10/17/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CAD		7. ADMINISTERED BY (If other than Item 6)	
CODE		CAD		CODE	
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(X)		9A. AMENDMENT OF SOLICITATION NO.	
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC20F0022	
				10B. DATED (SEE ITEM 13) 10/18/2019	
CODE 072648579		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

TOCOR: Christopher Clark

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 10/07/2020

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0022/P00002	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/18/2019 to 10/17/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020	4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)		
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE		
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors			<input checked="" type="checkbox"/> (X)		9A. AMENDMENT OF SOLICITATION NUMBER		
			<input type="checkbox"/>		9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/> (X)		10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders		
			<input type="checkbox"/>		10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/> (X)	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 10/22/2019		2. CONTRACT NO. (If any) 68HERC19D0003		6. SHIP TO: a. NAME OF CONSIGNEE Office of Research and Development	
3. ORDER NO. 68HERC20F0028		4. REQUISITION/REFERENCE NO. PR-ORD-19-01893			
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US Environmental Protection Agency 26 West Martin Luther King Drive	
				c. CITY Cincinnati	e. ZIP CODE 45268
7. TO: Robert Toth				f. SHIP VIA	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.					
b. COMPANY NAME				8. TYPE OF ORDER	
c. STREET ADDRESS 9300 LEE HIGHWAY				<input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220316050		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE Office of Research and Development	

11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB				12. F.O.B. POINT	
13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination		14. GOVERNMENT B/L NO.	
				15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 10/21/2020	
16. DISCOUNT TERMS					

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: Nicolle Tulve					
	Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$39,517.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts						\$39,517.00
c. CITY Durham		d. STATE NC	e. ZIP CODE 27711				17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature)

10/22/2019

ELECTRONIC
SIGNATURE

23. NAME (Typed)
William M. Yates
TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 10/22/2019	CONTRACT NO. 68HERC19D0003	ORDER NO. 68HERC20F0028
-----------------------------	-------------------------------	----------------------------

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Accounting Info: 19-20-C-26US000-000FK8XPW-2532-26A6A-1926USE 071-001 BFY: 19 EFY: 20 Fund: C Budget Org: 26US000 Program (PRC): 000FK8XPW Budget (BOC): 2532 Cost: 26A6A DCN - Line ID: 1926USE071-001 Period of Performance: 10/22/2019 to 10/21/2020 ORD/NERL/SED/EFAB, Tulve. Funding for the New HHRA Contract, TO-0020, Dust and Soil Ingestion. Task Order on the Human Health and Risk Assessment Contract. Contract #: TBD. TOCOR: Nicolle Tulve. Estimated POP: 08/15/2019 to 09/30/2020. Contracting Office: CAD. Contracting Officer: William Yates. CLCOR: Melissa Revely-Wilson. Cost/Org: 26A6A RAP Extramural. EFAB refers to Environmental Futures Analysis Branch.				39,517.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$39,517.00

Statement of Work

Contractor Name: ICF, Inc.

Task Order Title: Support for *America's Children and the Environment*

I. Background, Purpose and Scope

America's Children and the Environment (ACE) is EPA's compilation of children's environmental health indicators. ACE presents available data to report on trends and status of important factors related to children's environmental health, with indicators in three categories: Environments and Contaminants; Biomonitoring; and Health.

The ACE indicators are periodically updated on the Agency's public website at www.epa.gov/ace, providing easy access to all of the ACE content, along with supporting detailed technical documentation. Several of the indicators are also published annually in the interagency *America's Children* report, available at childstats.gov.

The contractor provided support for ACE under a previous contract (GS-00F-010CA_EP-G16H-01019), including calculation of updated indicator values for existing ACE indicators and editing ACE website files to incorporate updated indicator values that were computed since the prior website update was completed in 2017. All relevant website files have been edited in 2019, but the 2019 revisions have not yet been published to the public website. The purpose of this task assignment is to provide additional support for updating the ACE website, and support for updates to selected existing children's environmental health indicators.

Task 1: Within 3 days of the TO award, the Contractor shall schedule a conference call (not to exceed 1 hour) with the TO Contracting Officer Representative (TOCOR) and other EPA staff and any appropriate contractor staff to clarify outstanding questions and confirm the schedule of specific tasks. Copies of all correspondence pertaining to the performance of this TO shall be sent to the L-COR.

Task 2: Support for ACE website and indicator updates

The contractor shall edit website text, graphics and supporting background documents, as requested by the TO-COR. On a date to be specified by the TO-COR, the contractor shall publish all updated content to the public ACE website.

The contractor shall provide updated values (incorporating data for the year 2018) for the following indicators from *America's Children and the Environment* and *America's Children*: asthma prevalence, and neurodevelopmental disorders. Updated indicator values shall be provided in Excel spreadsheets.

Deliverables and due dates:

- 2a. Publish updates to the public ACE website: on date to be specified by the TO-COR
- 2b. Asthma and neurodevelopmental disorders indicators update: 11/20/19

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00001		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CAD		7. ADMINISTERED BY (If other than Item 6) CODE	
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11)	
CODE 072648579		FACILITY CODE		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC20F0028 10B. DATED (SEE ITEM 13) 10/22/2019	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

TOCOR: Nicolle Tulve

LIST OF CHANGES:

Reason for Modification: The purpose of this modification is to clarify that Task 8 of the PWS is an optional task and has not been exercised or funded at this time. Task 8 is removed from the PWS until it is exercised

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA ELECTRONIC SIGNATURE (Signature of Contracting Officer)	16C. DATE SIGNED 11/05/2019

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0028/P00001	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/22/2019 to 10/21/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 4	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00002		See Block 16C		PR-ORD-20-01037			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050							
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x			
				10A. MODIFICATION OF CONTRACT/ORDER NO.			
				68HERC19D0003			
				68HERC20F0028			
				10B. DATED (SEE ITEM 13)			
				10/22/2019			
CODE 072648579		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Increase:		\$50,648.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: Nicolle Tulve							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification will be to execute the remaining requirements of the PWS to include both years of all task including task 8. In addition, this modification will fully fund all task for this requirement.							
Total Amount for this Modification: \$50,648.00							
Total Amount for this Modification: \$50,648.00							
New Total Amount for this Version: \$90,165.00							
New Total Amount for this Award: \$90,165.00							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 06/17/2020	

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0028/P00002	PAGE	OF
		2	4

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Obligated Amount for this Modification: \$50,648.00 New Total Obligated Amount for this Award: \$90,165.00</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 Total Amount changed from \$39,517.00 to \$90,165.00 Obligated Amount for this Modification: \$50,648.00</p> <p>CHANGES FOR DELIVERY LOCATION: ORD CIN Amount changed from \$39,517.00 to \$90,165.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-26D5000-000FK8XPW-2532-26A5C-2026D5E023-001 1 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 26D5000 Program (PRC) 000FK8XPW Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D5E023-001 Quantity: 0 Amount: \$26,832.00 Percent: 29.75878 Subject To Funding: N Payment Address:</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-26D5000-000FK9-2532-26A5C-2026D5E023-002 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 26D5000 Program (PRC) 000FK9 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D5E023-002 Quantity: 0 Amount: \$11,526.00 Percent: 12.78323 Subject To Funding: N Payment Address:</p> <p>Continued ...</p>				

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	68HERC19D0003/68HERC20F0028/P00002	3	4

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C-26D5000-000FK7XR3-2532-26A5C-2026D5E023-003 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C Budget Organization 26D5000 Program (PRC) 000FK7XR3 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D5E023-003 Quantity: 0 Amount: \$214.00 Percent: .23734 Subject To Funding: N Payment Address:</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-20-C3-26D5000-000FK8-2532-26A5C-2026D5E023-004 Beginning FiscalYear 19 Ending Fiscal Year 20 Fund (Appropriation) C3 Budget Organization 26D5000 Program (PRC) 000FK8 Budget (BOC) 2532 Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D5E023-004 Quantity: 0 Amount: \$1,638.00 Percent: 1.81667 Subject To Funding: N Payment Address:</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 20-21-C-26D5000-000FK8XPV-2532-26A5C-2026D5E023-005 Beginning FiscalYear 20 Ending Fiscal Year 21 Fund (Appropriation) C Budget Organization 26D5000 Program (PRC) 000FK8XPV Budget (BOC) 2532 Continued ...</p>				

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0028/P00002	PAGE	OF
		4	4

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Job # (Site/Project) Cost Organization 26A5C DCN-LineID 2026D5E023-005 Quantity: 0 Amount: \$10,438.00 Percent: 0 Subject To Funding: N Payment Address: Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/22/2019 to 10/21/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 2	
2. AMENDMENT/MODIFICATION NO. P00003		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		CODE CAD		5. PROJECT NO. (If applicable)	
		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Robert Toth 9300 LEE HIGHWAY FAIRFAX VA 220316050		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. 68HERC19D0003 68HERC20F0028	
				10B. DATED (SEE ITEM 13) 10/22/2019	
CODE 072648579		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

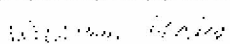
DUNS Number: 072648579

TOCOR: Nicolle Tulve

The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) William M. Yates	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 10/07/2020

Previous edition unusable

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED 68HERC19D0003/68HERC20F0028/P00003	PAGE	OF
		2	2

NAME OF OFFEROR OR CONTRACTOR
ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/22/2019 to 10/21/2020				

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE	OF	PAGES
2. AMENDMENT/MODIFICATION NUMBER		3. EFFECTIVE DATE 08/13/2020		4. REQUISITION/PURCHASE REQUISITION NUMBER		5. PROJECT NUMBER (If applicable)	
6. ISSUED BY Raoul D. Scott, Director OMS/ARM/OAS/Policy, Training and Oversight Division US Environmental Protection Agency, Mail Code 3802R 1200 Pennsylvania Avenue, NW Washington, DC 20004		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To All EPA Contractors				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NUMBER			
				<input type="checkbox"/> 9B. DATED (SEE ITEM 11)			
				<input checked="" type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NUMBER To all EPA Contracts and Orders			
				<input type="checkbox"/> 10B. DATED (SEE ITEM 13)			
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NUMBER AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NUMBER IN ITEM 10A.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This contract/order is being modified in accordance with the applicability instructions in interim FAR Case 2019-009, and FAR 4.2105, requiring contracting officers to include FAR clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

See attached for the full text version of FAR 52.204-25. Contractor Acknowledgment of receipt required.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA RAOUL SCOTT Digitally signed by RAOUL SCOTT Date: 2020.07.30 11:40:17 -04'00'	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Previous edition unusable

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGES		
					12		
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00004		See Block 16C		PR-ORD-21-00075			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
US Environmental Protection Agency							
26 West Martin Luther King Drive							
Mail Code: W136							
Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)		9A. AMENDMENT OF SOLICITATION NO.	
ICF Incorporated, L.L.C.							
Attn: Robert Toth						9B. DATED (SEE ITEM 11)	
9300 LEE HIGHWAY							
FAIRFAX VA 220316050							
CODE		FACILITY CODE		x		10A. MODIFICATION OF CONTRACT/ORDER NO.	
072648579						68HERC19D0003	
						68HERC20F0028	
						10B. DATED (SEE ITEM 13)	
						10/22/2019	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended.							
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
X Mutual Agreement of the Parties							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 072648579							
TOCOR: Nicolle Tulve							
LIST OF CHANGES:							
Reason for Modification: The purpose of this modification will be to extend the period of performance because of the mandatory evacuations in California due to the wildfires and significant air pollution. These fires have caused the relocation for health and safety along with the delays in the work provided.							
Period Of Performance End Date changed from 21-OCT-20 to 21-OCT-21							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				William M. Yates			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				ELECTRONIC SIGNATURE		10/27/2020	
				(Signature of Contracting Officer)			

NAME OF OFFEROR OR CONTRACTOR
 ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 10/22/2019 to 10/21/2021				